

CLAIMS:

1. A composition for printing a patterned resist layer onto an underlying, preferably etchable layer comprising:
 - a) an acid-functional resin that is soluble in alkaline medium and insoluble in acidic medium, having an acid number of at least 100 mg KOH/g;
 - 5 b) a base solvent having a boiling point between 100 and 250°C; and
 - c) a tackifying solvent having a boiling point between 200 and 350°C; provided that the boiling point of the tackifying solvent is higher than the boiling point of the base solvent.
- 10 2. The composition of claim 1 wherein the resin is acid-functional acrylic resin.
3. The composition of claim 1 or 2 wherein the Mw of the resin is between 250 and 20,000.
- 15 4. The composition of any one of claims 1-3 wherein the base solvent is selected from glycol ester, propyleneglycol ester, and mixtures thereof.
5. The composition of claim 4 wherein the base solvent is butyl glycol acetate.
- 20 6. The composition of any one of claims 1-5 wherein the ratio base solvent : tackifying solvent is 95 : 5 to 30 : 70 (w/w), more preferably 80 : 20 to 40 : 60 (w/w).
7. The composition of any one of claims 1-6 and comprising less than 5 ppm of sodium, potassium and/or halogen.
- 25 8. A method for making a patterned layer comprising the steps of
 - a) printing the resin composition of any one of claims 1-6 onto an underlying etchable layer to obtain the underlying etchable layer overlaid with a patterned resist layer;
 - b) treating the underlying etchable layer overlaid with the patterned resist layer

with an acidic solution or by a reactive ion etching method to obtain a patterned layer overlaid with the patterned resist layer; and

c) stripping the resin from the patterned layer overlaid with the patterned resist layer, by dissolving the resin in an alkaline solvent to obtain the patterned layer.

5

9. The method according to claim 8 by using in step a) a gravure offset printing technique.

10. A method for making a pixel design that comprises at least two layers selected from conductive, semi-conductive, and insulating layers, by patterning at least one of said layers by the method according to claim 8 or 9.

10

11. A method for making a liquid crystal display comprising a step of making the pixel design according to the method of claim 10.